

# Work Order ID 77490

**\*77490\***

Page 1

December-08-11 1:41:01 PM

Item ID: D4387-041 Accept **\*N900040100\*** Setup Start **\*NS1\***  
Revision ID: Stop **\*NS2\***  
Item Name: Harness Assembly  
Start Date: 08/12/2011 Start Qty: 12.00 **\*12\*** Cust Item ID:  
Required Date: 22/12/2011 Req'd Qty: 12.00 **\*12\*** Customer:  
Reference:

Approvals: Process Plan: M. L. J Date: 11/12/08 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4387	B								

100 PURCHASING 0.00  
**\*100\***  
Purchasing Memo 0.00  
Purchasing Issue P/O: 15646  
P/N: 4192-1-011-2396  
Possible supplier: Amsafe  
Certificate of conformaty is required

CL 11/12/12 (12)

110 Receive & Inspect for Damage & Mat'l Certs 0.00  
**\*110\***  
Packaging Memo 0.00  
Packaging Ensure certificate of conformity is attached

u 11/12/12 (12)

120 QC5- Inspect part completeness to step on W/O 0.00  
**\*120\***  
QC Memo 0.00  
Quality Control

8 11/12/12

(12)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Work Order ID 77490

**\*77490\***

Page 2

December-08-11 1:41:01 PM

Item ID: D4387-041 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Harness Assembly  
 Start Date: 08/12/2011 Start Qty: 12.00 **\*12\*** Cust Item ID:  
 Required Date: 22/12/2011 Req'd Qty: 12.00 **\*12\*** Customer:  
 Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	Identify as per dwg & Stock Location: <u>51263</u>	0.00							
<b>*150*</b>									
Packaging	Memo	0.00				MLJ	12/01/02		
Packaging						(12)			
160	QC21- Final Inspection - Work Order Release	0.00							
<b>*160*</b>									
QC	Memo	0.00							
Quality Control									

CK 12/01/03  
 MF  
 12-01-03

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

December-08-11 1:41:07 PM

Page 1

Work Order ID: 77490

\*77490\*

Parent Item: D4387-041

\*D4387-041\*

Parent Item Name: Harness Assembly

Start Date: 08/12/2011

Required Date: 22/12/2011

Start Qty: 12.00

Required Qty: 12.00

Comments: IPP rev A 11.05.25 new issue EC verified by: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
4192-1-011-2396		Purchased	No				Each	0.0000		12			
*4192-1-011-2396*									**				
4-point Restraint, Separate Shoulder Straps													

CK Per L.L. 11/12/29

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

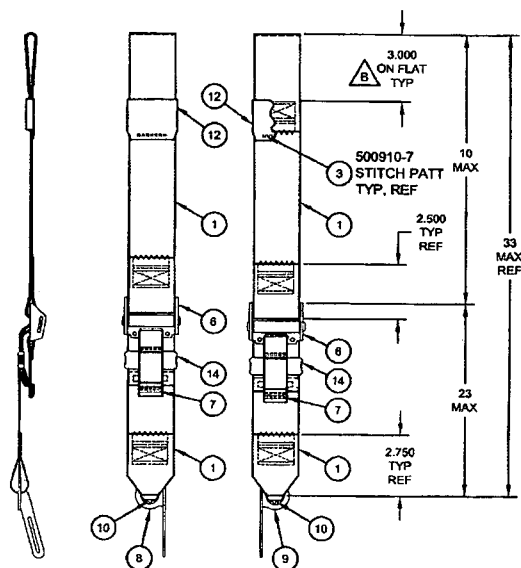
Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

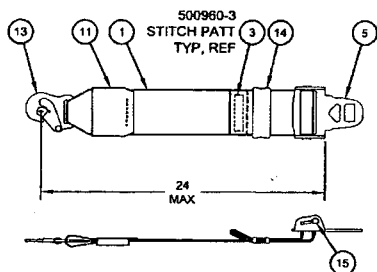
NOTE: Date & initial all entries

# SPECIFICATION CONTROL DRAWING

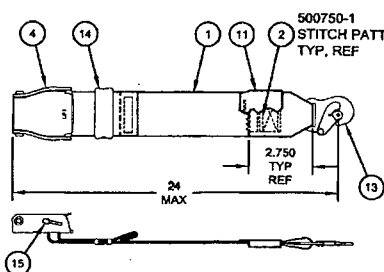


**D4387-7**

**D4387-5**



**D4387-3**



**D4387-1**

**D4387-041 HARNESS ASSEMBLY**

ITEM	QTY -041	QTY -1	QTY -3	QTY -5	QTY -7	DART P/N	DESCRIPTION	AMSAFE P/N OR MATERIAL P/N
	X					D4387-041	HARNESS ASSEMBLY	4192-1-011-2396
1		X				D4387-1	BUCKLE HALF	4192-2010112396
2			X			D4387-3	CONNECTOR HALF	4192-2030112396
3				X		D4387-5	SHOULDER STRAP	4192-2050112396
4					X	D4387-7	SHOULDER STRAP	4192-2060112396
1		A/R	A/R	A/R	A/R		WEBBING, POLYESTER	T1200-5
2		A/R	A/R	A/R	A/R		THREAD	207
3		A/R	A/R	A/R	A/R		THREAD	69
4		1					BUCKLE ASSY	502750-401
5			1				CONNECTOR ASSY	504459-417-72
6				1	1		ADJUSTER ASSY	503050-409
7				1	1		PULL TAB	500876-425
8					1		ADAPTER, HARNESS	505122-2-72
9				1			ADAPTER, HARNESS	505122-1-72
10				1	1		INSERT	AFG0568293
11		1	1				LABEL	447664
12				1	1		LABEL	447664
13		1	1				HOOK ASSY	502737-441-72
14		1	1	1	1		WEB SLIDE	503964-1
15		2	2				PLUG	502813

## NOTES:

- 1) PURCHASE: D4387-041-1/-3/-5/-7 FROM AMSAFE INC., Phoenix, AZ.
- 2) FINISH: N/A
- 3) TOLERANCES: XXX ±0.250
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: USE PLASTIC ENGRAVED TAGS AND LABEL PER FAR 21.607 TO CONTAIN THE FOLLOWING AT MINIMUM:  
MANUFACTURER P/N: 4192-1-011-2396  
CUSTOMER P/N: D4387-041  
DATE OF MFG  
CONFORMS TO FAA TSO-C114
- 7) WEIGHT: 1.75 lb
- 8) INDICATED DIMS ARE FULLY EXTENDED LENGTHS

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 33490 M.C-5

11/12/08

RELEASED  
2011-06-16

B	3.000 TYP WAS 2.000 TYP (ZN D6-1) (REF. NCR11-644)	MB	11.06.07
A	NEW ISSUE (REF. CAR10-011)	MB	11.05.02
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	11.06.07		

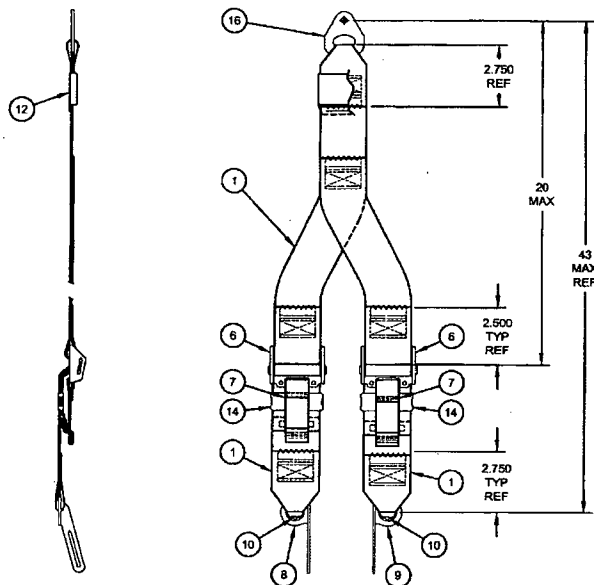
**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. D4387  
TITLE HARNESS ASSEMBLY  
REV. B  
SHEET 1 OF 2  
SCALE  
NTS

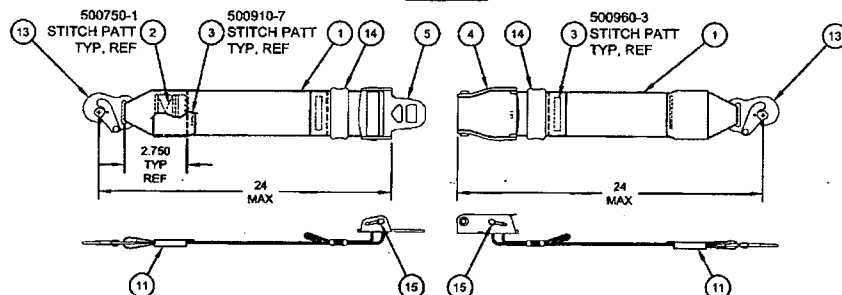
COPYRIGHT © 2011 BY DART AEROSPACE LTD  
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR DISCLOSED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

77490

# SPECIFICATION CONTROL DRAWING



**D4387-9**



**D4387-13**

**D4387-11**

**D4387-043 HARNESS ASSEMBLY**

ITEM	QTY -043	QTY -9	QTY -11	QTY -13	DART P/N	DESCRIPTION	AMSAFE P/N OR MATERIAL P/N
	X				D4387-043	HARNESS ASSEMBLY	4173-2-021-2396
1		X			D4387-9	SHOULDER STRAP	4173-2110212396
1			X		D4387-11	BUCKLE HALF	4173-2070212396
1				X	D4387-13	CONNECTOR HALF	4173-2090212396
1		A/R	A/R	A/R		WEBBING, POLYESTER	T1200-5
2		A/R	A/R	A/R		THREAD	207
3		A/R	A/R	A/R		THREAD	69
4			1			BUCKLE ASSY	502750-401
5				1		CONNECTOR ASSY	504459-417-72
6		2				ADJUSTER ASSY	503050-409
7		2				PULL TAB	500976-425
8		1				ADAPTER, HARNESS	505122-2-72
9		1				ADAPTER, HARNESS	505122-1-72
10		2				INSERT	AFG0568293
11			1	1		LABEL	447664
12		1				LABEL	447664
13		2	1	1		HOOK ASSY	502737-441-72
14			1	1		WEB SLIDE	503964-1
15			2	2		PLUG	502813
16		1				END FITTING	501743-21-72

## NOTES:

- 1) PURCHASE: D4387-043/-9/-11/-13 FROM AMSAFE INC., Phoenix, AZ.
- 2) FINISH: N/A
- 3) TOLERANCES: .XXX ±0.250
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: USE PLATIC ENGRAVED TAGS AND LABEL PER FAR 21.607 TO CONTAIN THE FOLLOWING AT MINIMUM:  
MANUFACTURER P/N: 4173-2-021-2396  
CUSTOMER P/N: D4387-043  
DATE OF MFG  
CONFORMS TO FAA TSO-C114
- 7) WEIGHT: 1.85 lb
- 8) INDICATED DIMS ARE FULLY EXTENDED LENGTHS

RELEASED  
2011-06-16

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D4387	SHEET 2 OF 2
APPROVED		TITLE	SCALE
DE APPR.		HARNESS ASSEMBLY	NTS
DATE	11.06.07	COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



1. Approving National Aviation Authority/Country:  FAA/United States		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number:  5224109-1-NW	
4. Organization Name and Address:  AmSafe Aviation 1043 North 47th Avenue Phoenix, Arizona 85043		Cert. No. PT1967NM				5. Work order/Contract/Invoice Number: S224109 - 1 PAGES ATTACHED	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	REST SYS ASSY	4192-1-011-2396	N/A	12	A1211	NEW	
13. Remarks: Drawing: 4192 Rev: D TSO: TSO-C114							
EXPORT AIRWORTHINESS APPROVAL: THIS ARTICLE MEETS THE SPECIAL REQUIREMENTS OF CANADA							
14. Certifies the items identified above were manufactured in conformity to:  <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation  <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13  Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature: 		16. Approval/Authorization No.: ODA602112NM		20. Authorized Signature		21. Authorized/Certificate No.	
17. Name (typed or printed) Nancy Williamson		18. Date (m/d/y): DEC/22/2011		22. Names (typed or printed)		23. Date (m/d/y):	
<b>User/Installer Responsibilities</b>							
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>							

**AMSAFE****AMSAFE AVIATION**

1043 NORTH 47th AVENUE

PHOENIX, AZ 85043

PH (602)850-2850 FAX (602)850-2812

**SHIPPER/CERTIFICATION**

<b>CUSTOMER NO.</b>
10006113

<b>SALES ORDER NO.</b>
S224109

<b>BOL NO.</b>
000253369

<b>DATE PRINTED</b>
12/27/11

<b>PAGE NO.</b>
1

DART AEROSPACE  
1270 ABERDEEN STREET  
HAWKESBURY  
ONTARIO, CANADA K6A 1K7  
CanadaDART AEROSPACE LTD.  
1270 ABERDEEN ST  
HAWKSBURY,, ON K6A 1K7  
Canada

Ship to ID: 10006125

<b>CUSTOMER ORDER NO.</b>
FO15646

<b>TERMS</b>
NET30

<b>FREIGHT</b>
COLLECT

<b>SHIP VIA</b>
FedEx P1 10:30 AM

<b>F.O.B.</b>
ORIGIN

Sales Order Remarks: 1517-9324-0

Remarks:

SHIPMENT REFERENCE 000253369

LINE	ITEM NUMBER / DESCRIPTION	DRAWING AND CERTIFICATIONS	DUE DATE	QTY ORDERED	QTY SHIPPED	QTY BACK ORDERED
2	4173-2-021-2396 REST SYS ASSY	DRAWING: 4173 REV: E CERT: TSO-C114 Lot/Serial Numbers Shipped Quantity S224109-2	2011-12-30	4 Expire Ref.	4 4	0
1	4192-1-011-2396 REST SYS ASSY	DRAWING: 4192 REV: D CERT: TSO-C114 Lot/Serial Numbers Shipped Quantity S224109-1	2011-12-30	12 Expire Ref.	12 12	0

Dec 17/29  
11.17.24

I certify that the article(s) listed above conform to all applicable design data, and (as applicable):

**FAA PMA, FMVSS 209, FMVSS 302, 14 CFR 25.853, DFARS 252-225-7009****FAA TSO C22f, C22g, C114 or TSO Plus**

The conditions and tests required for TSO approval of the article(s) are minimum performance standards. It is the responsibility of those installing the article(s) either on a specific type or class of aircraft to determine that the aircraft installation conditions are within the standards applicable to the TSO article including (when applicable) the integrated non-TSO function. The non-TSO function is described as the seat belt airbag system including the inflator cable assembly and electrical components that have not been evaluated for functionality or installation requirements. TSO articles including the integrated non-TSO function must have separate approval for installation in an aircraft. The article(s) may be installed only if performed under 14 CFR part 43 or the applicable airworthiness requirements. Product shipped meets all material, processing and test requirements. Certifications/Test reports as applicable are retained on file at AmSafe Aviation.

AmSafe Authorized Signature: X

Printed Name:

Jesse Ochoa  
Jesse Ochoa

DEC 27 2011

Dated: \_\_\_\_/\_\_\_\_/\_\_\_\_

**COUNTRY OF ORIGIN USA**